

TABLE 12-33
LEPTOCHEIRUS PLUMULOSUS SEDIMENT TOXICITY ANALYSIS (1999)

**REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT**

SAMPLING STATION	LEPTOCHEIRUS PLUMULOSUS			
	SURVIVAL (%)	MEAN DRY WEIGHT MG/SURVIVING ORGANISM (± SD)	MEAN FECUNDITY (% FEMALES WITH EGGS)	MEAN OFFSPRING PRODUCTION (± SD)
Laboratory Control				
Control	88	0.68 (±0.25)	65	28.8 (±12.1)
Intertidal Mudflat				
SDTA006A	64 ^a	0.23 (±0.09) ^b	38 ^b	d
SDTA007A	29 ^a	0.17 (±0.13) ^b	c	d
SDTB006A	36 ^a	0.16 (±0.04) ^b	50 ^b	d
SDTB007A	11 ^a	0.05 (±0.03) ^b	c	d
SDTC006A	0 ^b	--	c	d
SDTC007A	12 ^a	0.09 (±0.06) ^b	100 ^b	d
SDTD006A	5 ^a	0.13 (±0.00) ^b	c	d
SDTD007A	14 ^a	0.31 (±0.15) ^b	50 ^b	d
SDTG002A	6 ^a	0.09 (±0.05) ^b	c	d
SDTH001A	8 ^a	0.17 (±0.08) ^b	c	d
Marine Basin				
SDMB001A	83	1.19 (±0.14)	81	30.2 (±12.8)
SDMB002A	8 ^a	1.43 (±0.63) ^b	100 ^b	d
SDMB003A	77	1.24 (±0.19)	76	59.8 (±40.6)
SDMB004A	83	0.67 (±0.29)	63	31.0 (±18.7)
Outfall 008 Drainage				
SD08001A	85	1.14 (±0.19)	93	64.0 (±26.2)
SD08002A	59 ^a	0.29 (±0.12) ^b	25 ^b	d
SD08003A	75	1.14 (±0.14)	93	35.6 (±6.4)
Reference Area				
SDUS001A	39 ^a	1.10 (±0.19) ^b	86 ^b	d
SDUS002A	90	0.87 (±0.11)	91	41.0 (±10.8)
SDUS003A	22 ^a	0.72 (±0.15) ^b	38 ^b	d

Notes:

- a - Significantly different from the control based on percent survival.
- b - Samples that had no surviving organisms or significantly less survival than the control are not included in statistical analyses.
- c - Sample had no surviving mature females.
- d - Sample was not analyzed for offspring production because sample was already significantly different from the control based on survival.